



Data Digger Equipment

568 K/240 Krishnapalli, Alambagh, Lucknow. PIN 226005

GST: 09AFEPB9198K1ZW

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DIGITAL WATER LEVEL RECORDER



Digital Water Level Recorder is designed for accurate, remote monitoring of ground water level in a reservoir/borehole, coastal and inland waters, ports, wells and rivers. It can also be used for recording water level in canals, open channels, sumps and underground and overhead tanks. This highly accurate and sensitive sensor gives water level in mm.

Features:

- Unprecedented sensitivity, long term stability and reliability.
- Isolation of the sensor assembly from the effects of total stresses acting on the body of the piezometer.
- Robust and sturdy construction.
- In-built thermistor for temperature measurement.
- Provision of gas discharge tube for lightening and surge protection.
- Suitable for remote reading, scanning and Data logging.
- No effect of cable length on performance of the sensor.
- Battery operated unit, for Power Cut Emergency, with long battery back-up of up-to 72 Hours.
- Data Retrieval by over Mobile by SMS and USB Drive and WEB Portal.
- Alpha Numeric 20 X 4 Display for Field Monitoring.
- Data Storage Capacity till 1,00,00,000 Data or *5 Years.
- Data Retrieval through WEB based portal.



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The System Comprises of Three Main Components:

1. Data Logger: The Vibrating Wire-Data Logger or Automatic Data Acquisition system is the main control unit which do all the operations like taking Data on pre-defined intervals and sending it to the retrieval platforms. The Data Logger is itself battery enabled for taking data during emergency power cut and requires 220V A.C supply on site for operations. The unit is self-cable of SELF DIAGNOSIS and giving data directly in Engineering Unit. The Backlit display helps the operator to take data on field.

Model DD8G: The Model DD8G Single Channel Automatic Data Logger Unit is equipped with Telemetry Module for GSM/GPRS Communication. The user needs to insert GPRS Sim Card in the module to obtain Data on Cloud for Web Data Retrieval as well as via SMS on user defined mobile number. The User has also offline Data retrieval option via USB Pen drive by continuous plug inn of USB Drive with the Data Logger. The Data Will be Retrieved in Excel file with Date and Time Stamp on every data set. This model provides the ease of work to the user by obtaining data from Web Portal from anywhere in the globe. These Model are highly preferred in Remote Access Areas.

Model DD5G: The Model DD5G Single Channel Automatic Data Logger. The User can obtain offline Data retrieval option via USB Pen drive by continuous plug inn of USB Drive with the Data Logger. The Data Will be Retrieved in Excel file with Date and Time Stamp on every data set. This model is preferred for area where Network Operator Signal is weak and the area is easily accessible.

2. Piezo-Sensor: The System Comes with Vibrating Wire Based Piezo-Sensor for monitoring pressure on borewell and giving precise and accurate data. The Phenomenon of Vibrating Wire in field of Geo-Technical Monitoring is well proven for Precision and Durability from long time ago. The sensors are far durable from other type of Ceramic Diaphragm based Acoustic, Pneumatic or Pressure Sensors. The piezo-Sensor is Connected with the Data Logger through 4 Core Wire for Data Retrieval. A special cylindrical filter with conical tip is provided to give more surface area to the sensor. The filter is fixed on to the sensor body through a threaded connector which may easily be removed for saturation. Option of disc filter is also available.



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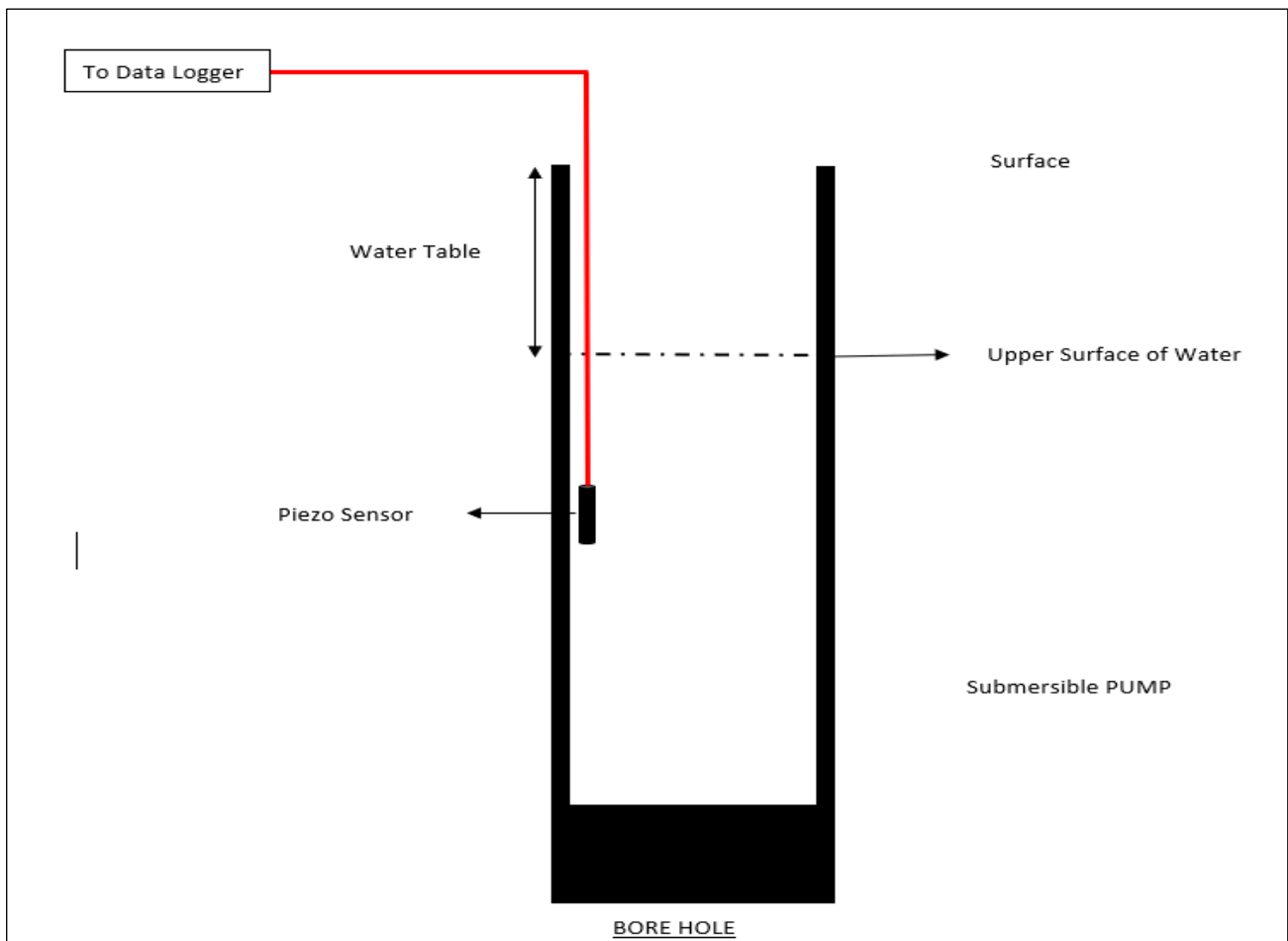
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3. **Four Core Shielded Wire:** For making the Connection between Data Logger and Piezo-Sensor 4 Core, PVC Jacket 0.5²mm shielded control cable is provided with the system. The wire comes with the Hook Up wire in between for taking the weight of Piezo-Sensor for longer period of time.

INSTALLATION DIAGRAM OF DIGITAL WATER LEVEL RECORDER



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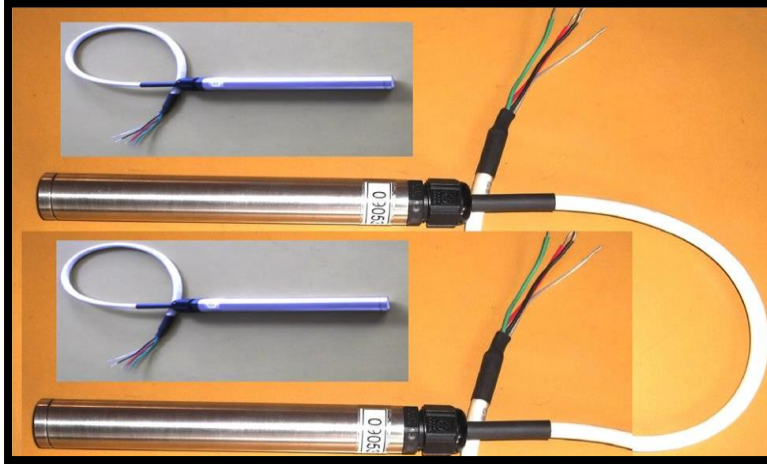
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Vibrating Wire Piezo-Sensor

Standard Ranges	10, 20, 30, 50M water head. Other Ranges also available.
Accuracy	1mm
Non-Linearity	$\pm 1\%$ F.S
Sensor Outer Body Material	Stainless Steel
Operating Temperature	-10°C to 50°C
Coil Resistance	140-160 Ohm @ 25°C
Thermistor	3K Ohm
Surge arrestor	Citel/Bournes 90V Gas Discharge tube
Filter	High and Low air entry ceramic
Dimension	28mm Dia x 195mm overall length
Cable	4 core Shielded cable with PVC tube jacket.



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CLASS-1 L-1 SUPPLIER Under "Make in INDIA" scheme with 100% Product and spares are Developed and Manufactured in INDIA.



DATA DIGGER EQUIPMENT

GEO-TECHNICAL, STRUCTURAL AND ENVIRONMENTAL MONITORING SYSTEM



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